

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of producing a thin film using opposing electrodes, said method comprising the step of:

applying a pulse voltage on said opposing electrodes under a pressure of 100 to 1600 Torr in an atmosphere comprising a gaseous raw material including a carbon source to generate discharge plasma so that a thin film, comprising diamond like carbon, is formed on a substrate, wherein said pulse voltage has a pulse duration shorter than 1000 nsec.
2. (Original) The method of claim 1, wherein said pulse voltage has a pulse rise time of 1000 nsec or shorter.
3. (Original) The method of claim 1, wherein said pulse voltage has a pulse fall time of 1000 nsec or shorter.
4. (Canceled)
5. (Withdrawn) A thin film produced by the method of claim 1.

6. (Withdrawn) The thin film of claim 5 comprising diamond-like carbon.
7. (Withdrawn) The thin film of claim 5 having a hardness of 10 GPa or higher.
8. (Previously Presented) The method of claim 1, wherein said pulse voltage has a pulse duration shorter than 500 nsec.